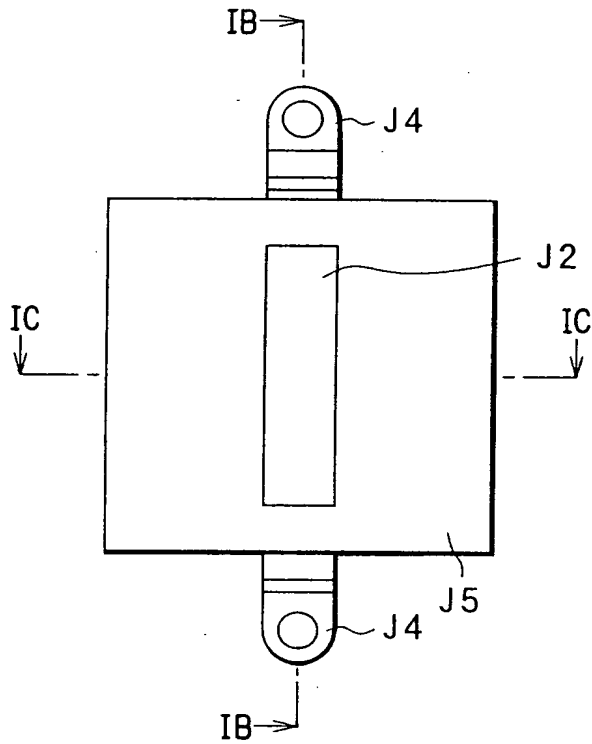


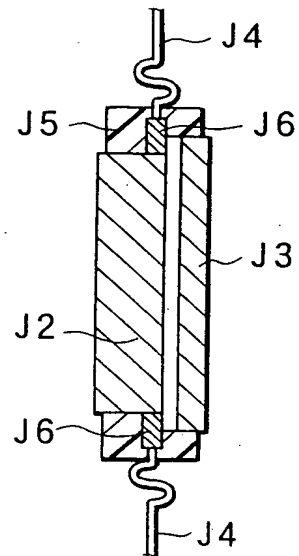
**FIG. 1A**

PRIOR ART



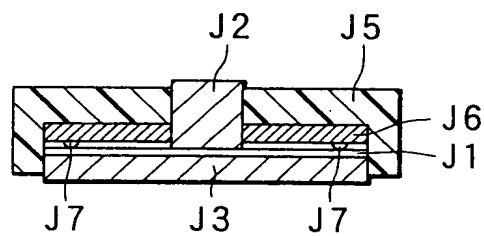
**FIG. 1B**

PRIOR ART



**FIG. 1C**

PRIOR ART



[illegible]

FIG. 3

NAME OF METAL	CHEMICAL COMPOSITION (%)												
	Fe	Zn	P	Ni	Si	Sn	NiB	Mn	Mg	Cr	Ti	B	Cu
METAL a	2.3	0.1	0.03										REMAIN.
METAL b	2.4	0.12	0.03										REMAIN.
METAL c				3.0	0.7								REMAIN.
METAL d	1.5	0.5				0.5							REMAIN.
METAL e	1.0	0.05	0.1			1.0							REMAIN.
METAL f	0.75		0.03			1.25							REMAIN.
METAL g	0.05 0.15		0.025 0.040										REMAIN.
METAL h	0.05 0.4		0.05 0.1			0.05 0.2	0.05 0.45						REMAIN.
METAL i			0.15 OR LOWER	0.1 0.4		1.7 2.3							REMAIN.
METAL j		0.2 0.35		3.0 3.4	0.6 0.75	1.0 1.5							REMAIN.
METAL k	0.12 1.0	0.03 0.1			0.1 1.0			0.02 0.05	0.02 0.05		0.02 0.05		0.03 0.2 REMAIN.
METAL l	0.5	0.1			0.3 0.7			0.05 0.5	0.35 0.5	0.03		0.06	0.1 REMAIN.

FIG. 4A

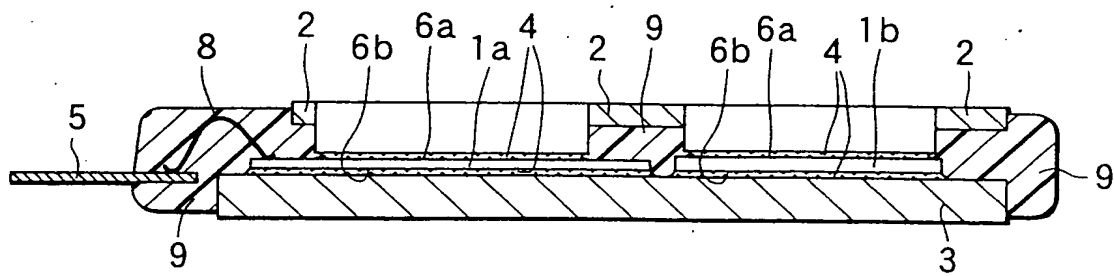


FIG. 4B

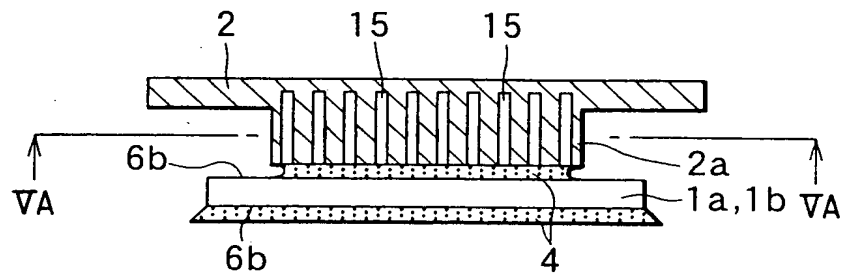


FIG. 4C

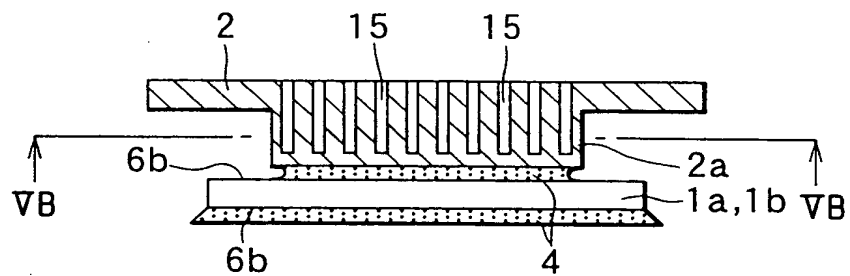
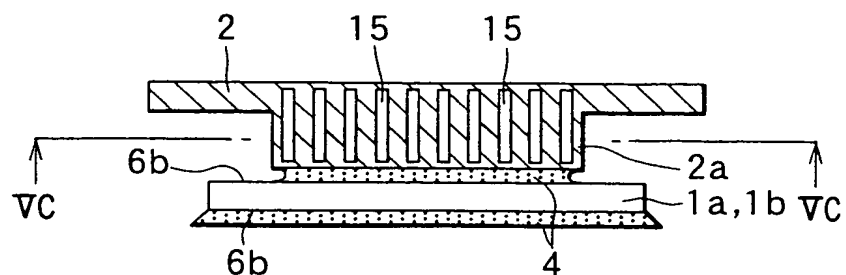
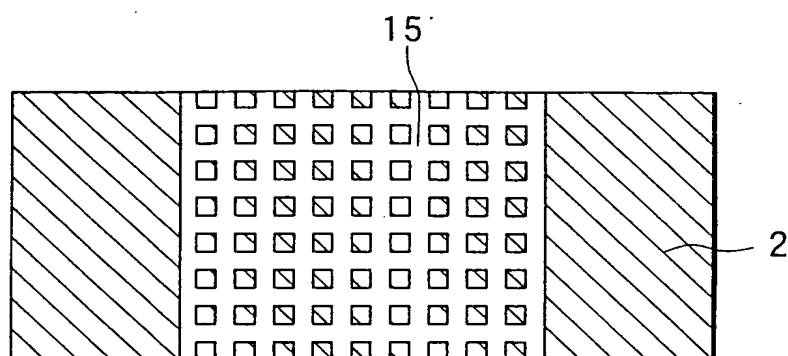


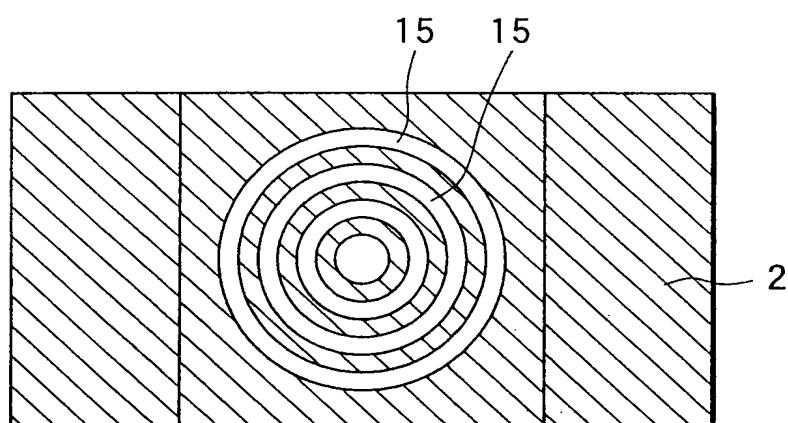
FIG. 4D



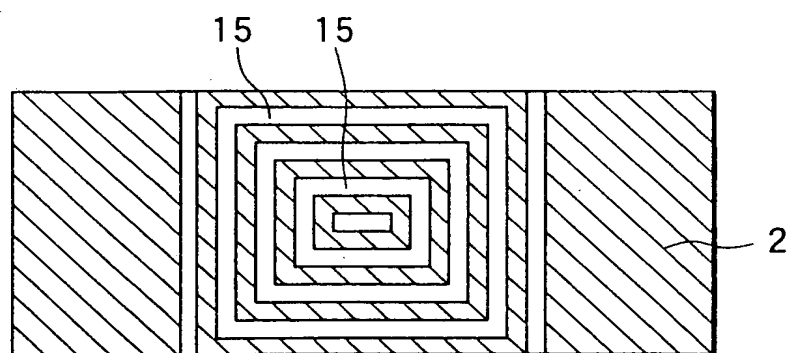
**FIG. 5A**



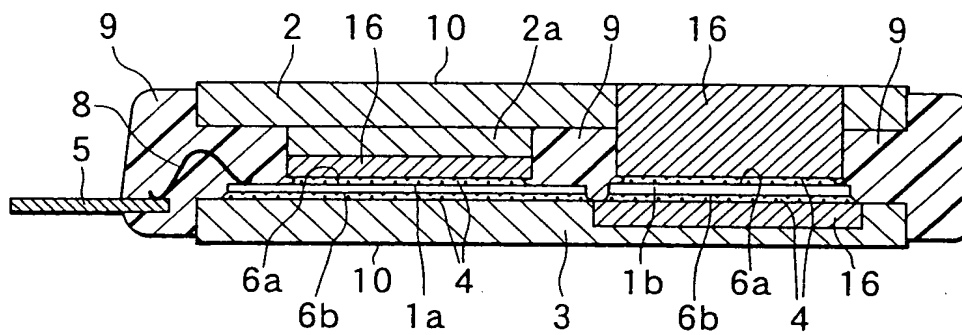
**FIG. 5B**



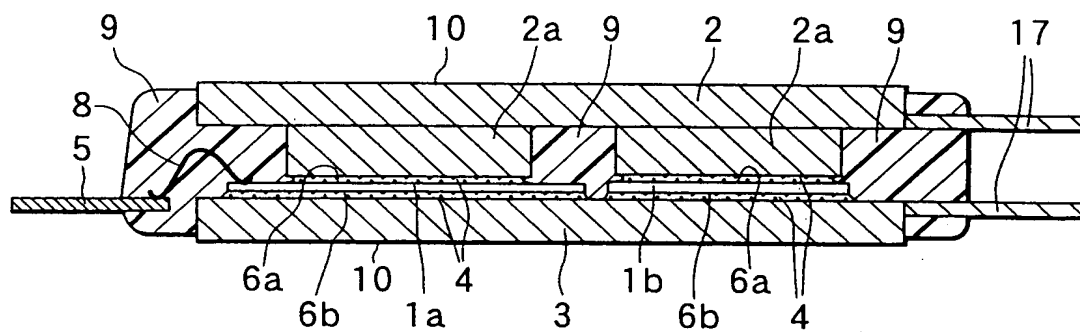
**FIG. 5C**



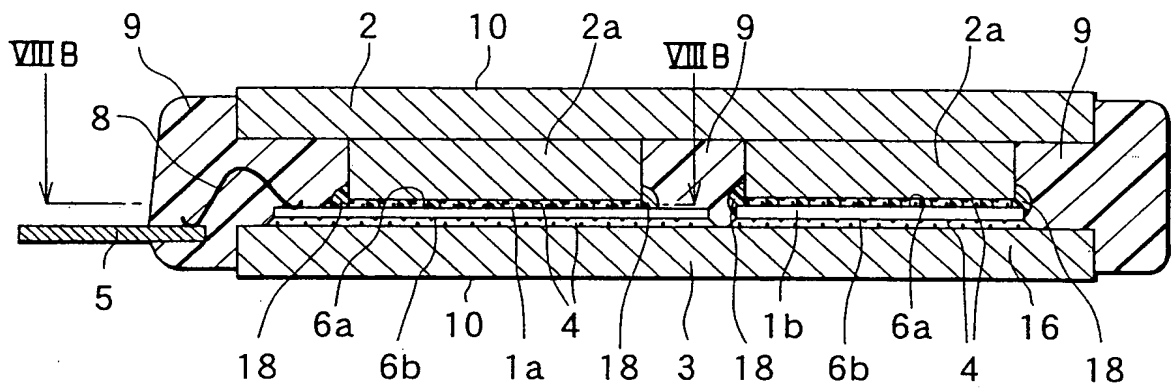
# FIG. 6



# FIG. 7



# FIG. 8A



# FIG. 8B

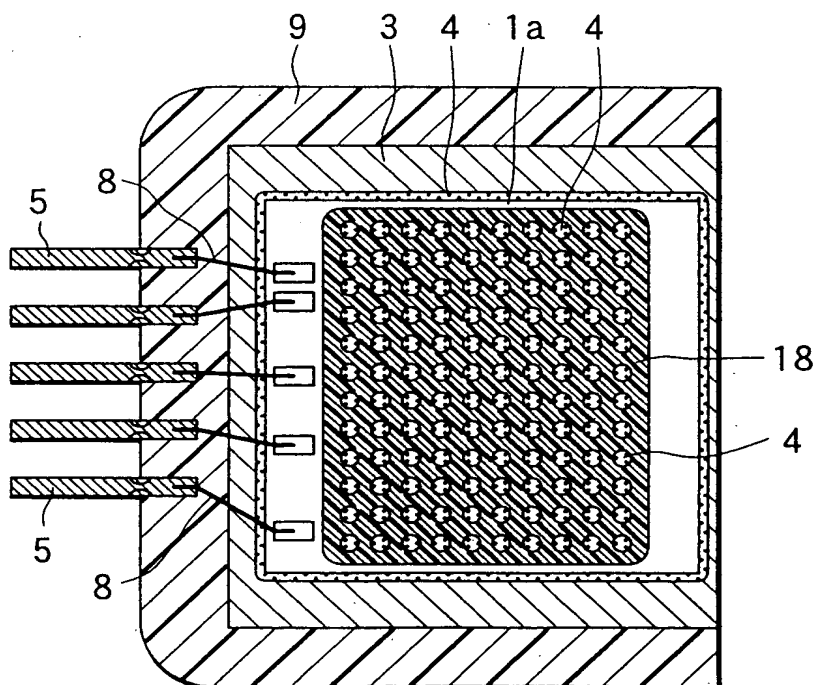


FIG. 9A

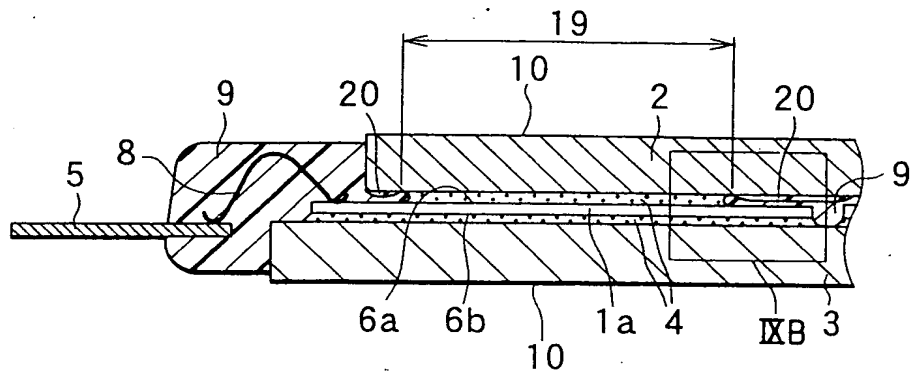


FIG. 9B

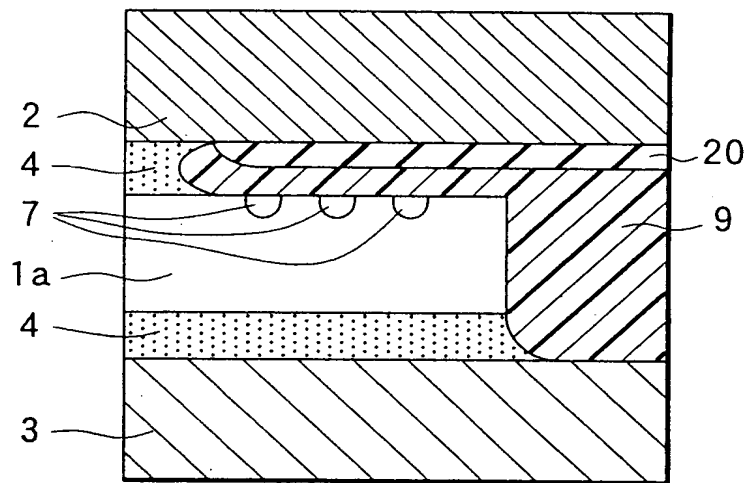


FIG. 9C

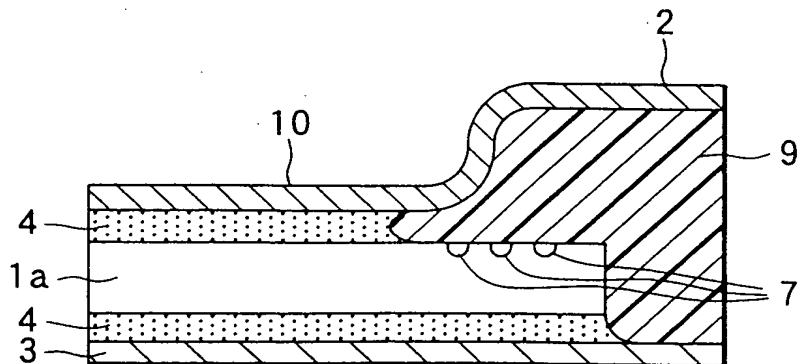




FIG. 10

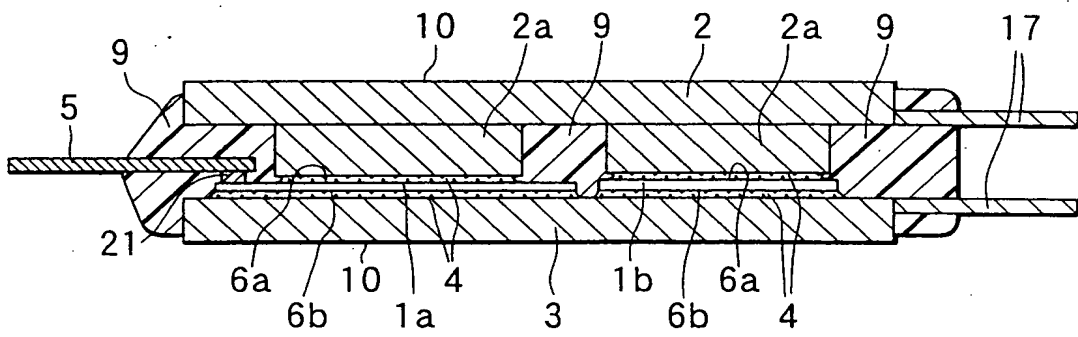


FIG. 11

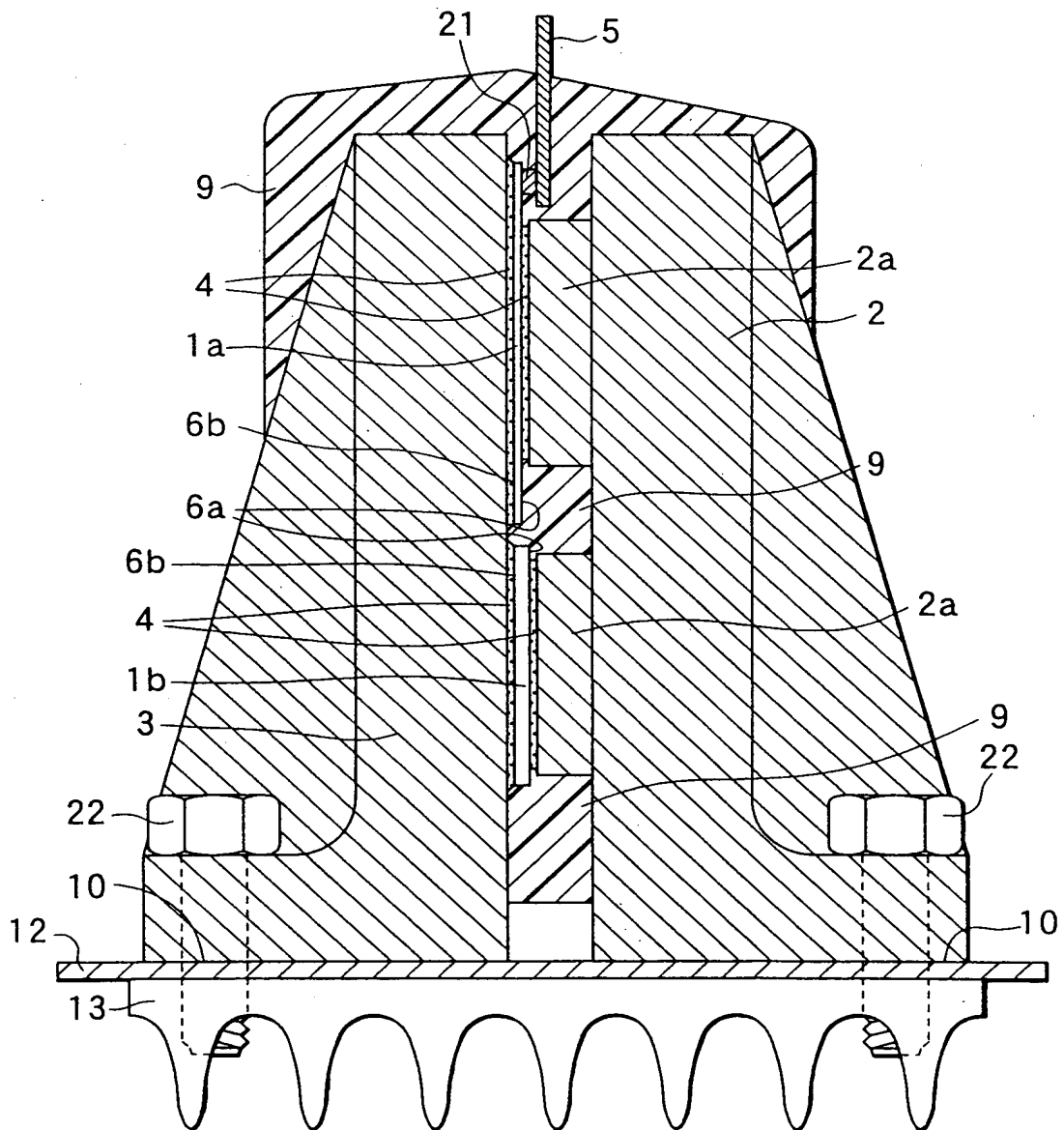


FIG. 12

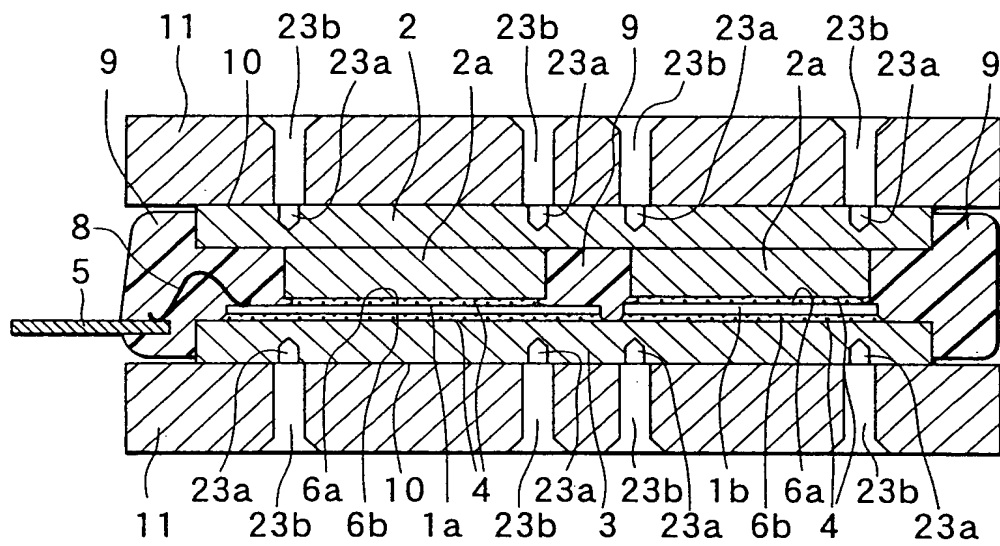
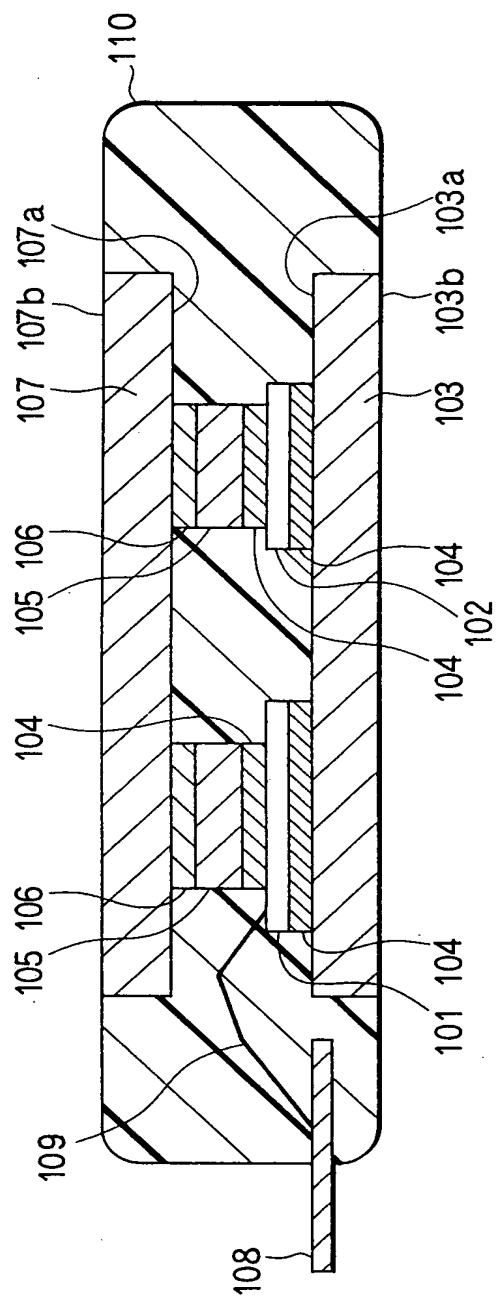
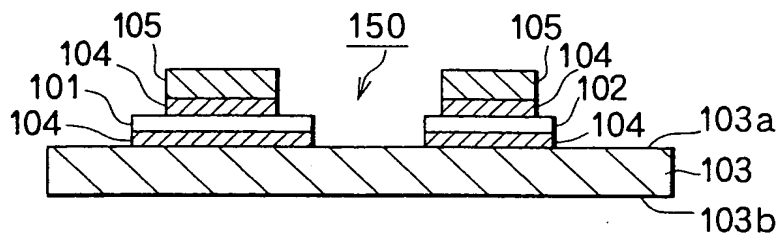


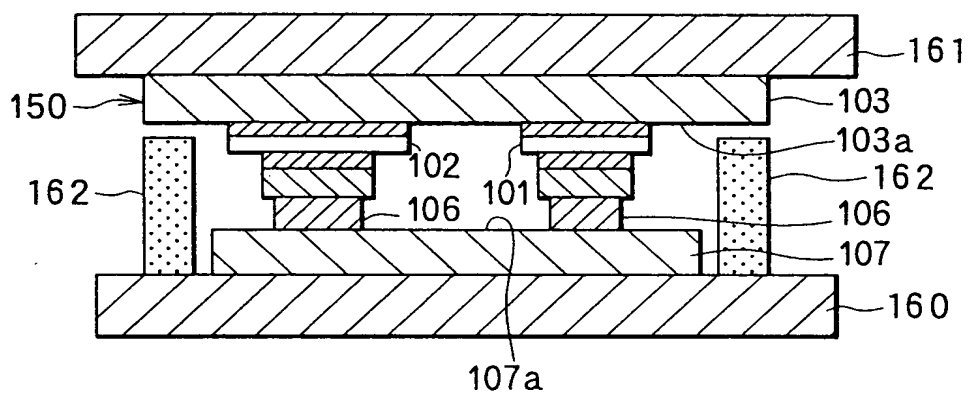
FIG. 13



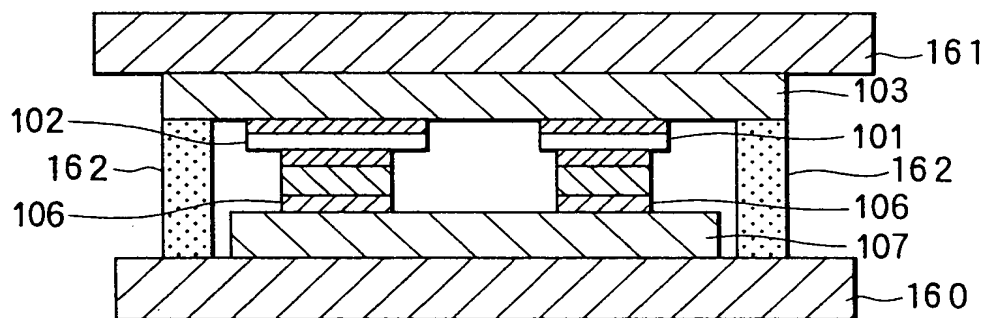
# FIG. 14A



# FIG. 14B



# FIG. 14C



# FIG. 15

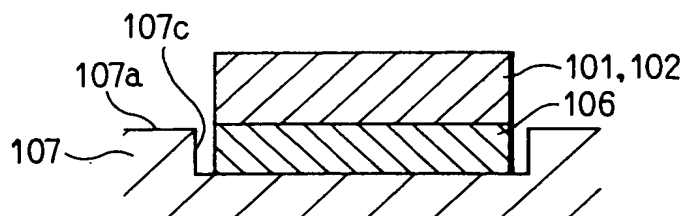


FIG. 16

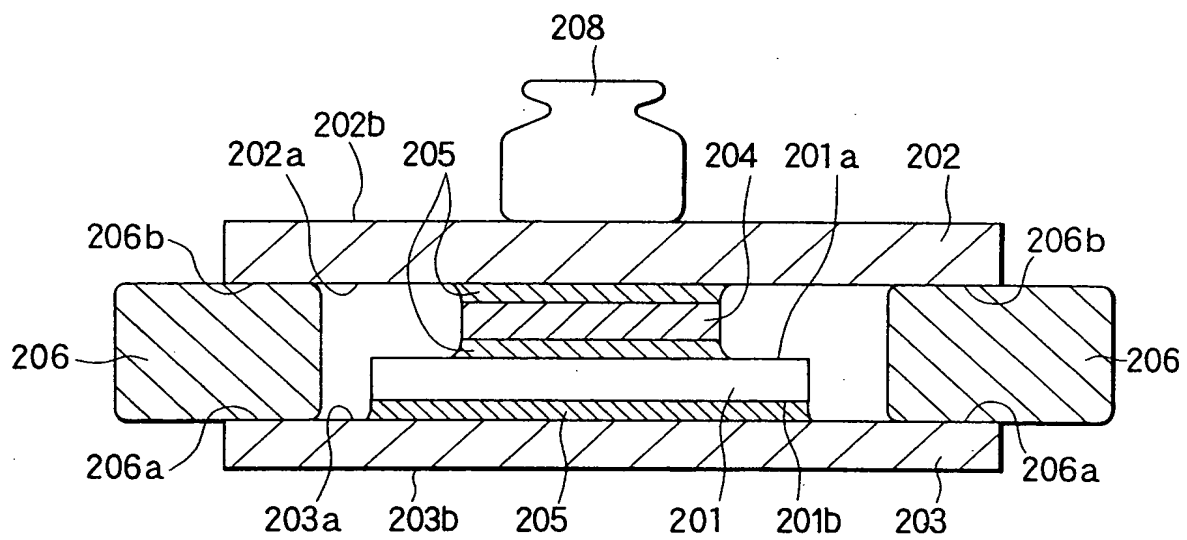


FIG. 17

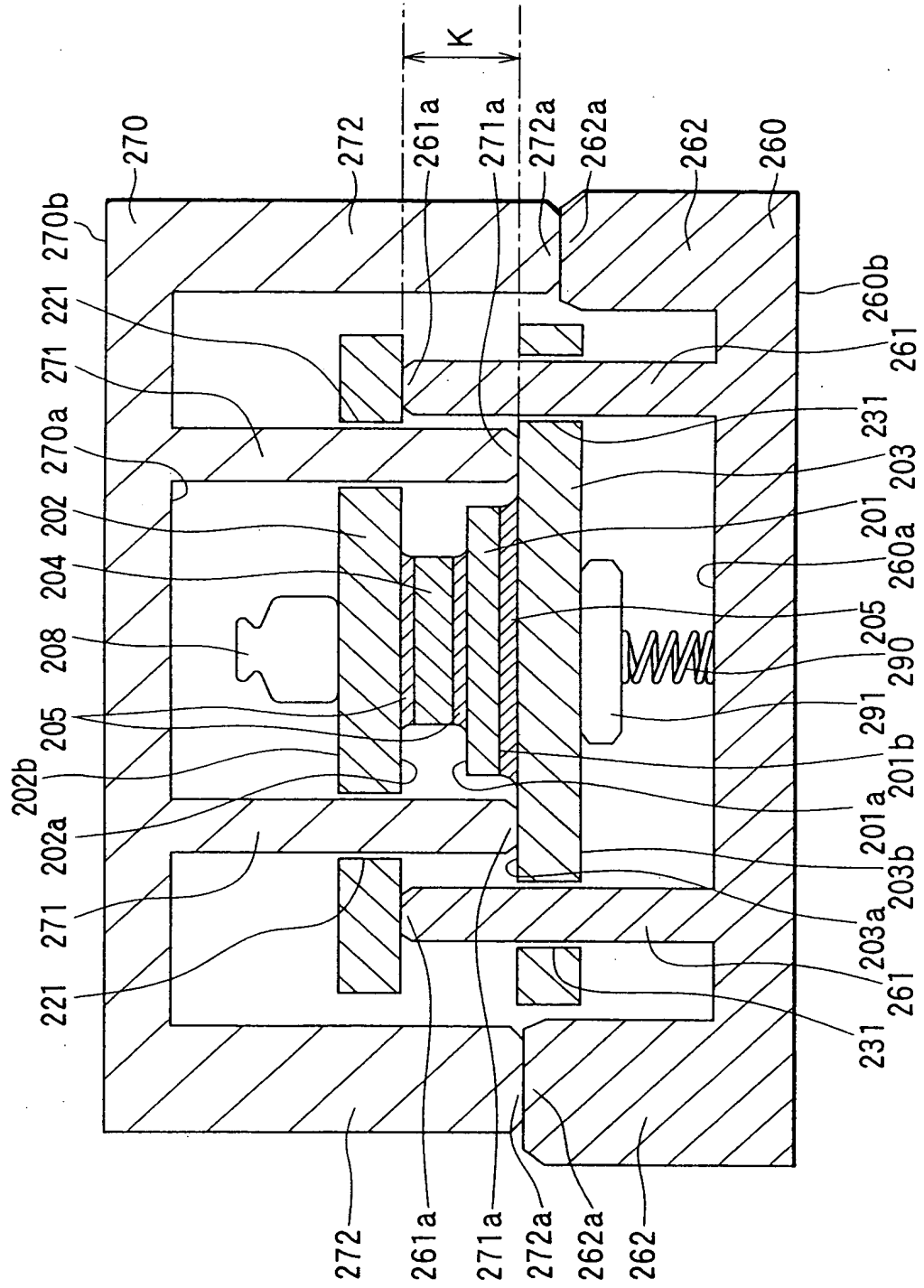


FIG. 18

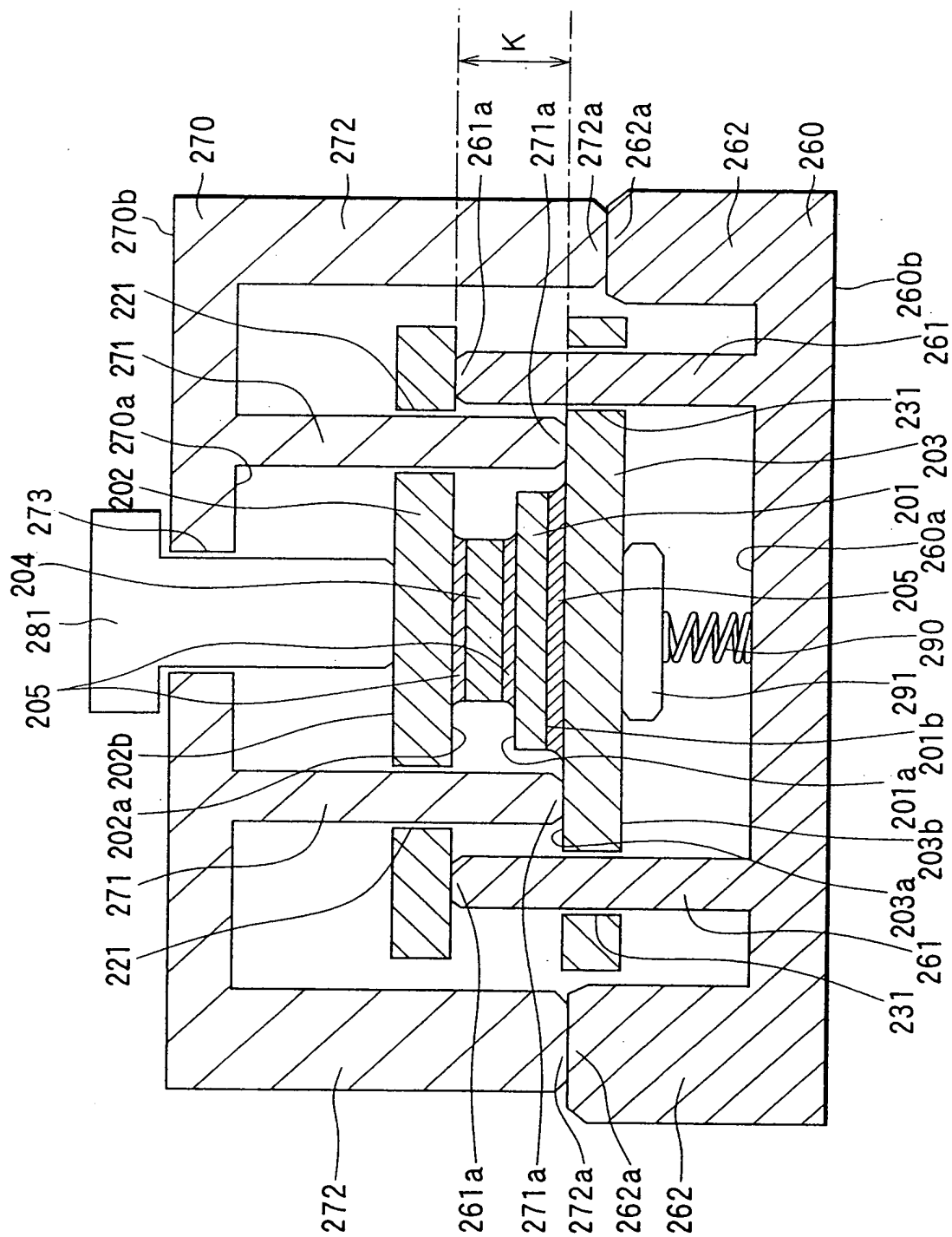


FIG. 19

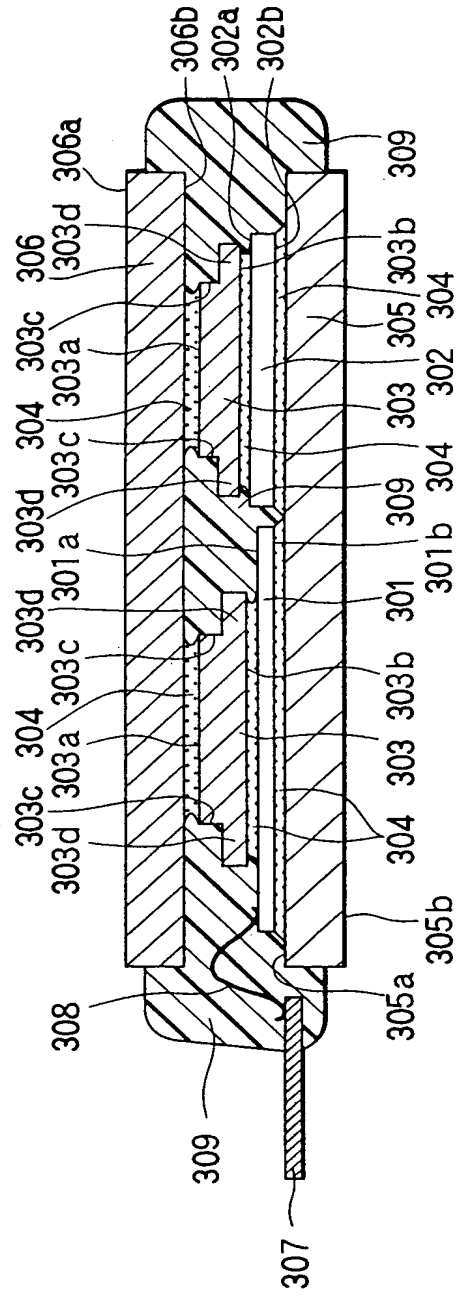




FIG. 20A

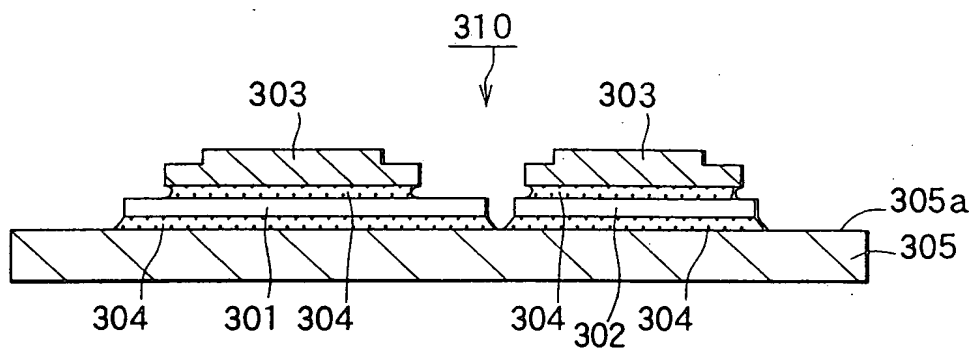


FIG. 20B

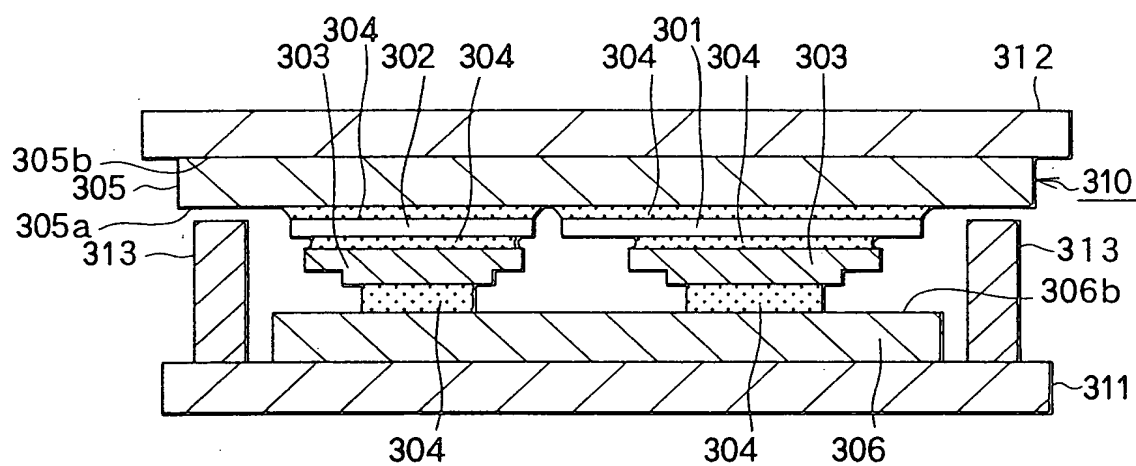


FIG. 20C

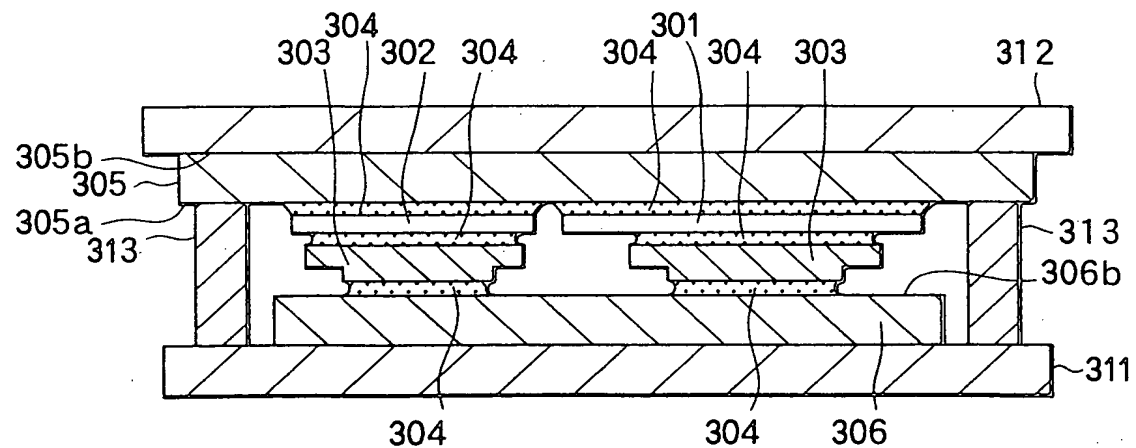


FIG. 21

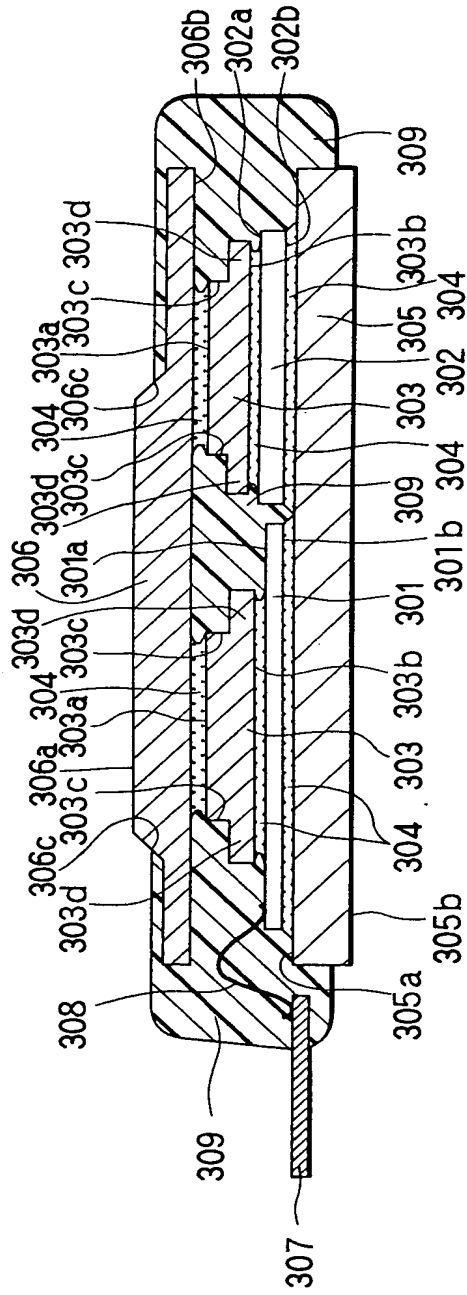


FIG. 22

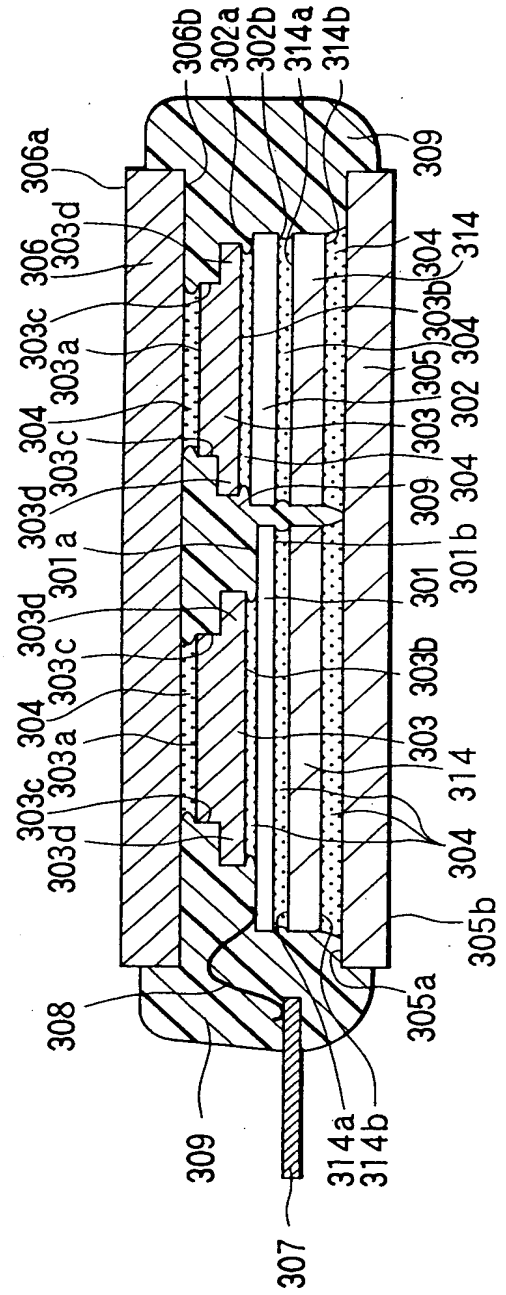
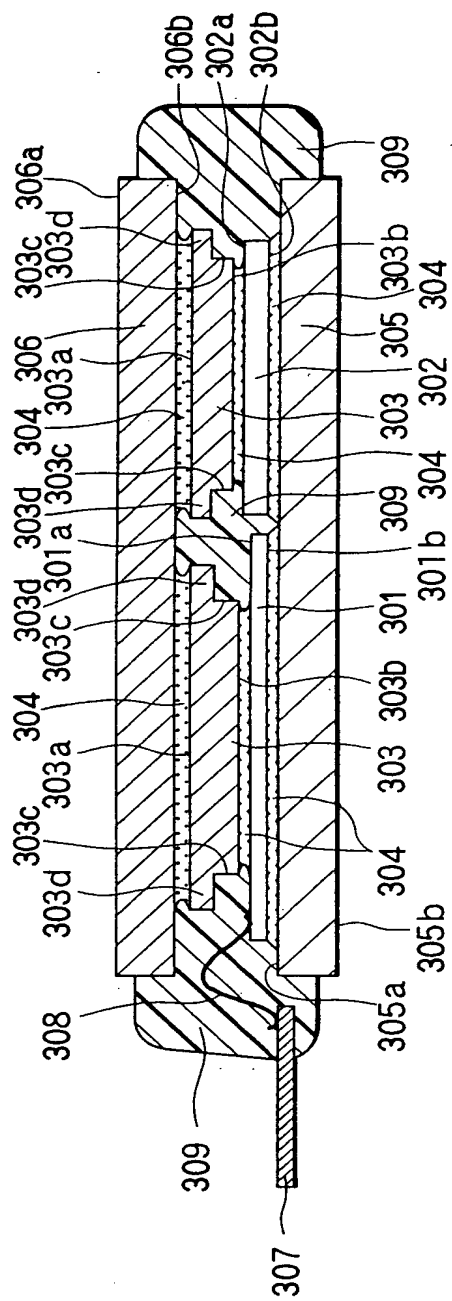
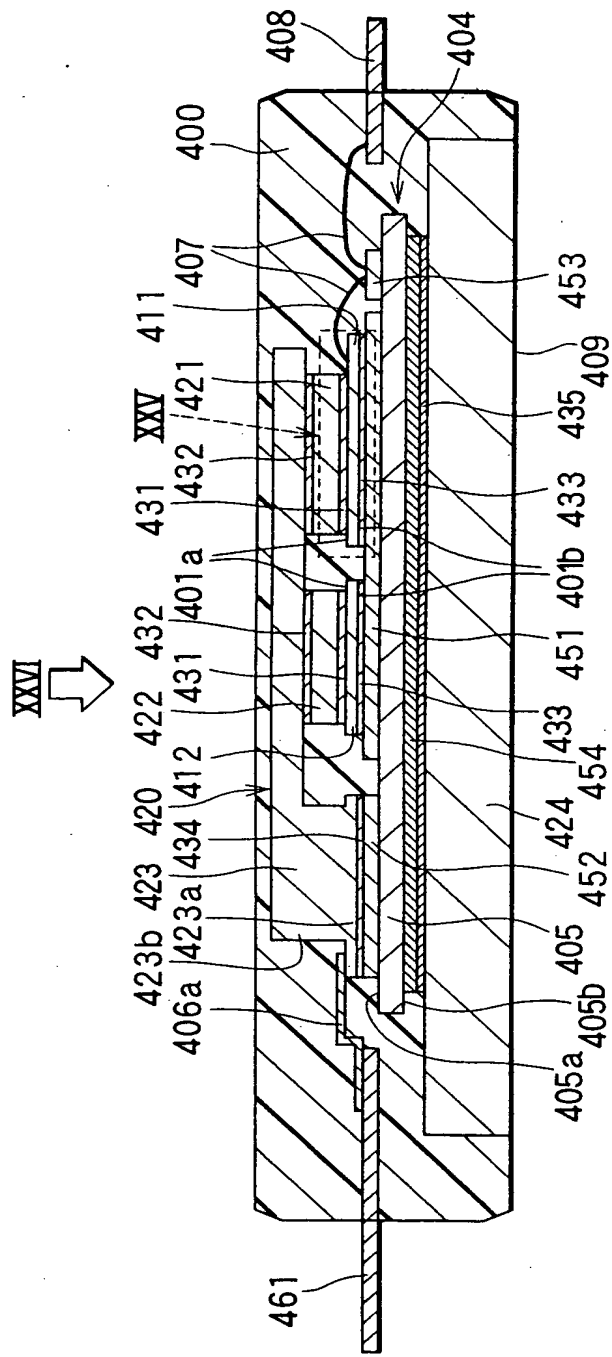


FIG. 23

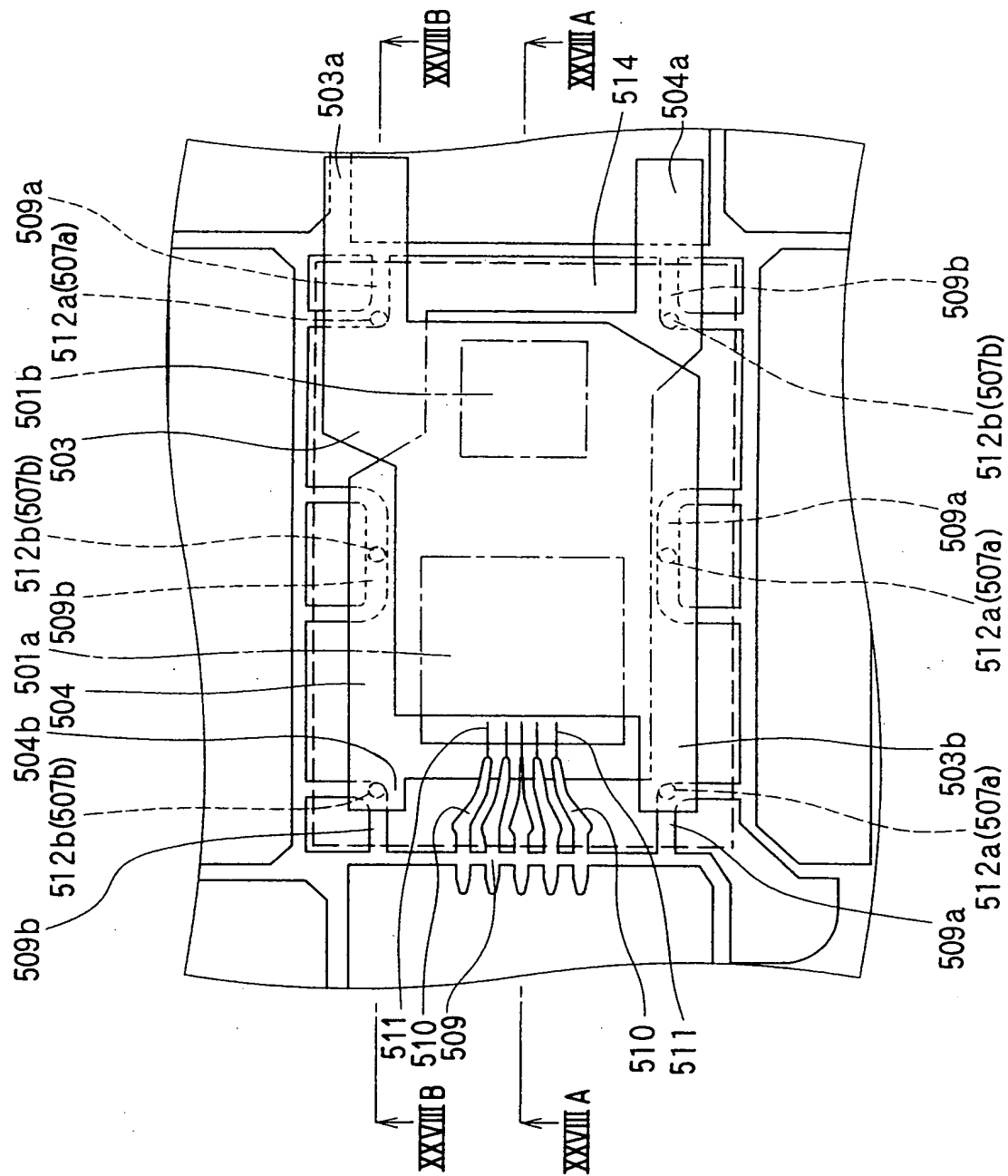


**FIG. 24**

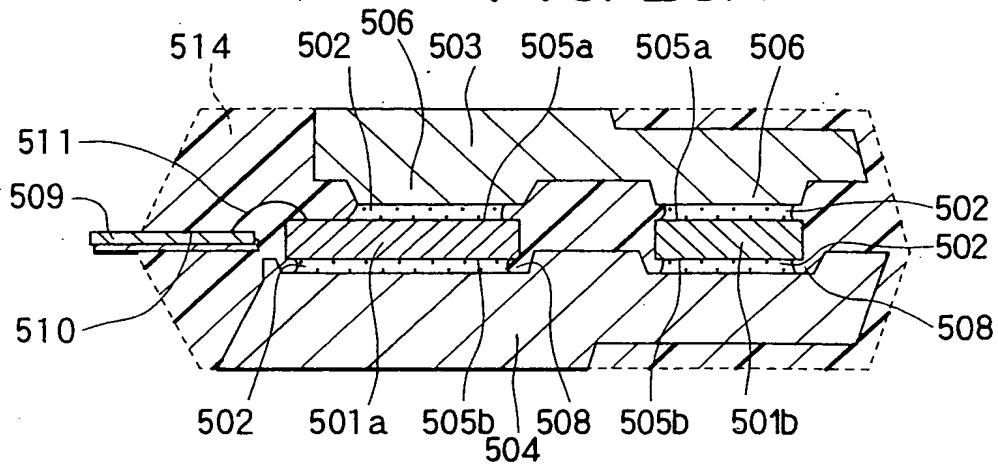


This cross-sectional view shows a substrate 451 at the bottom. Above it is a base layer 100. On top of the base layer 100, there are several layers: a layer 433, followed by a layer 116, then a layer 401b, and a layer 115. Above these is a layer 401a, which is composed of a layer 111 and a layer 113. A layer 114 is shown as a separate block next to the 401a structure. Above the 401a structure is a layer 111, followed by a layer 112, then a layer 431, and finally a top layer 421.

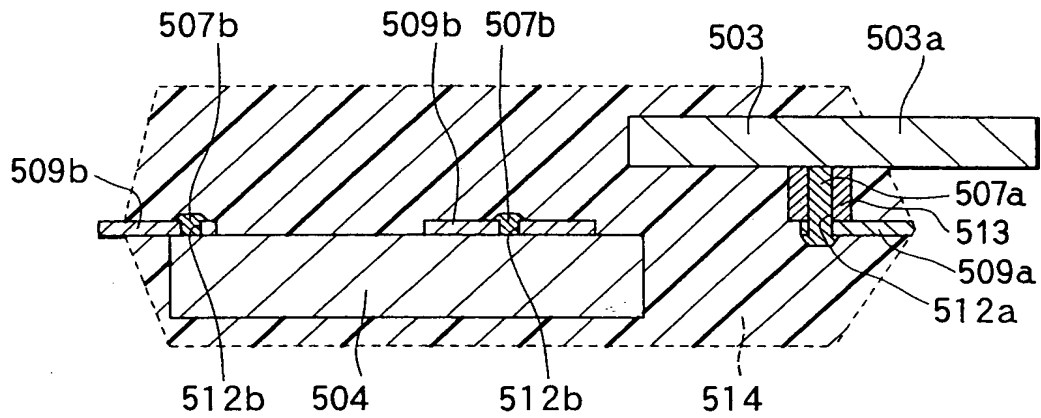
# FIG. 27



# FIG. 28A



# FIG. 28B



# FIG. 29

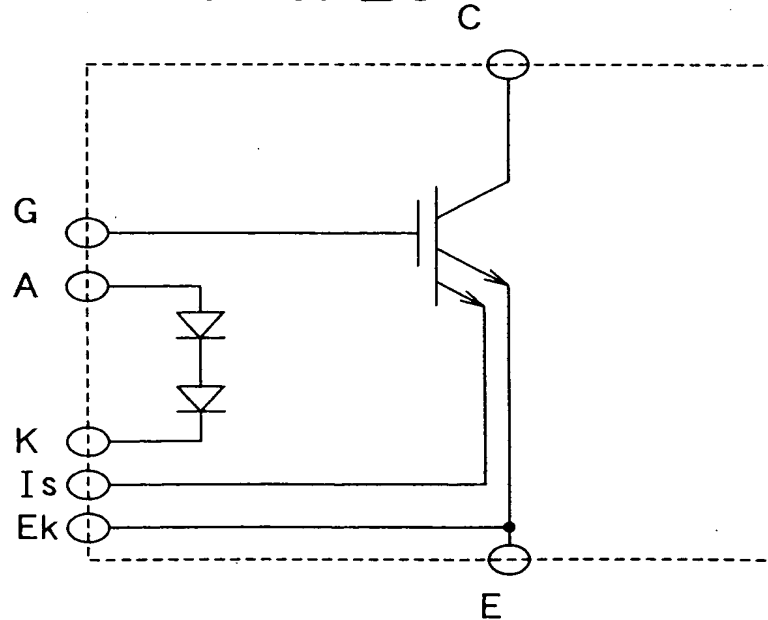


FIG. 30A

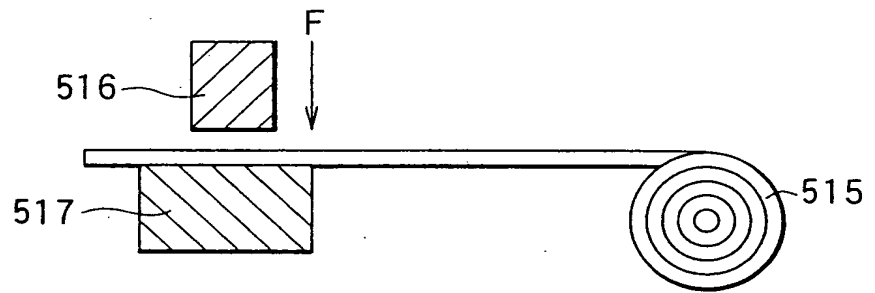


FIG. 30B

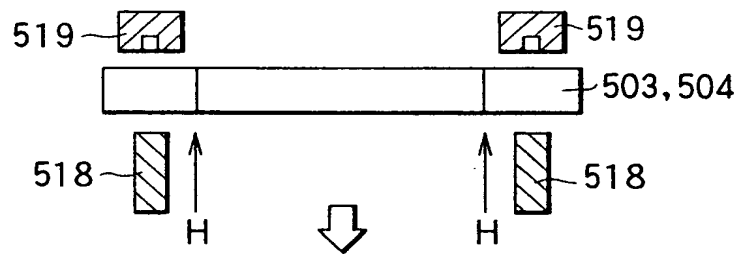


FIG. 30C

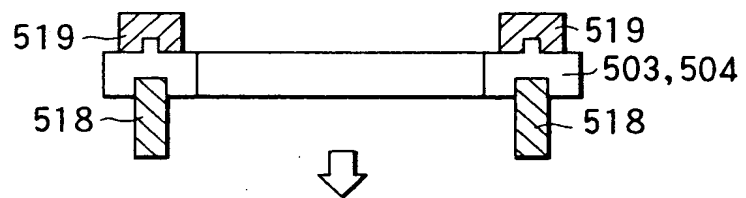
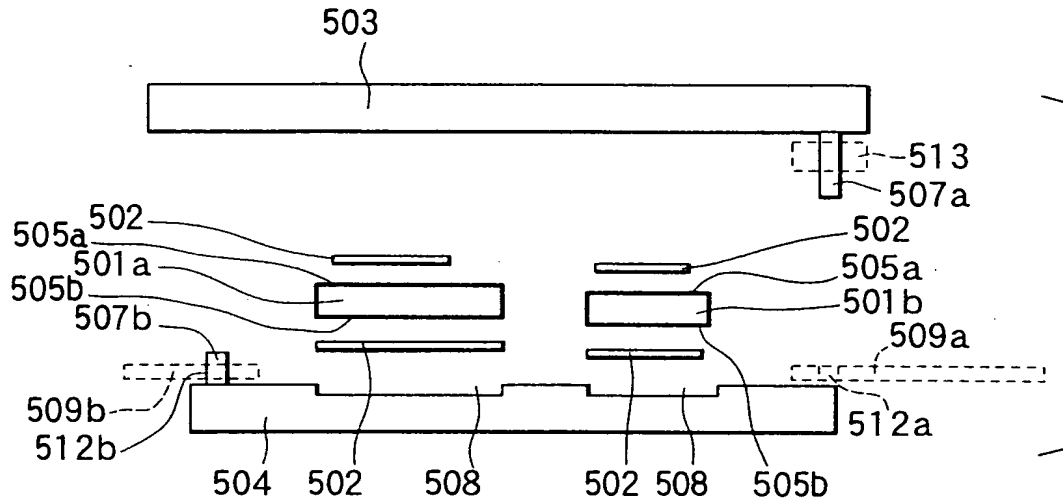


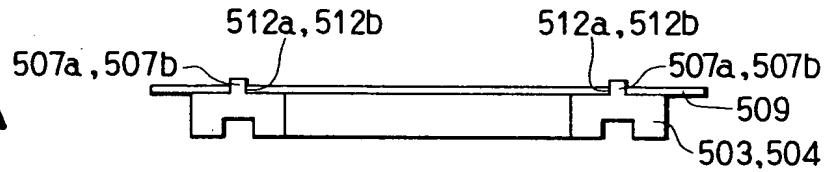
FIG. 30D



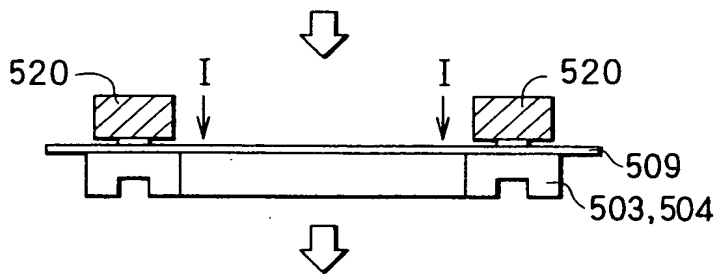
# FIG. 31



# FIG. 32A



# FIG. 32B



# FIG. 32C

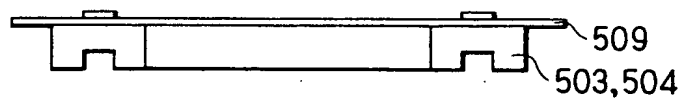




FIG. 33

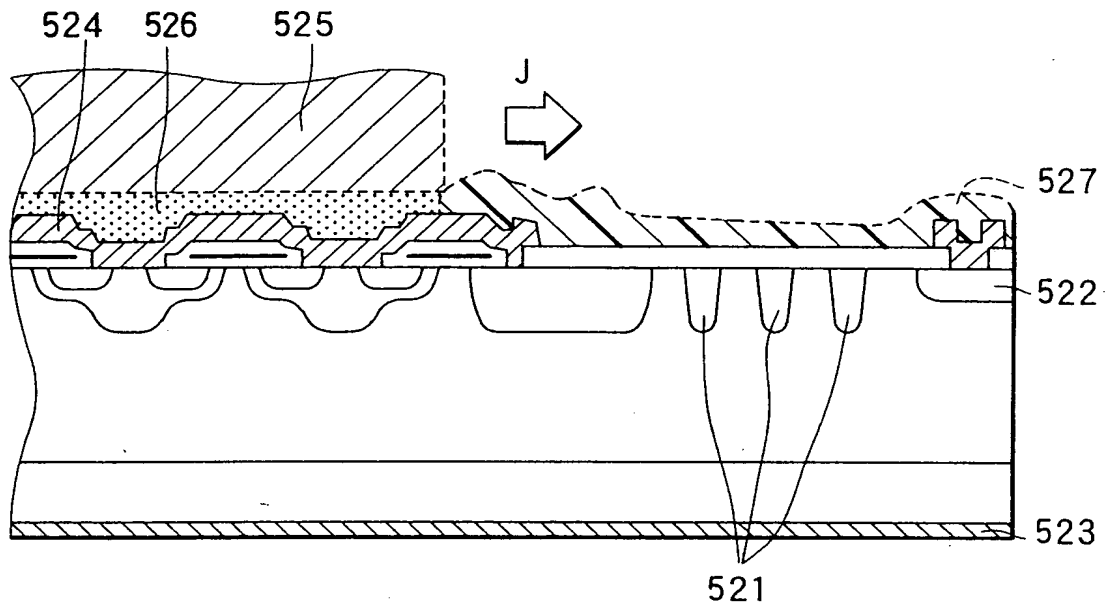


FIG. 34

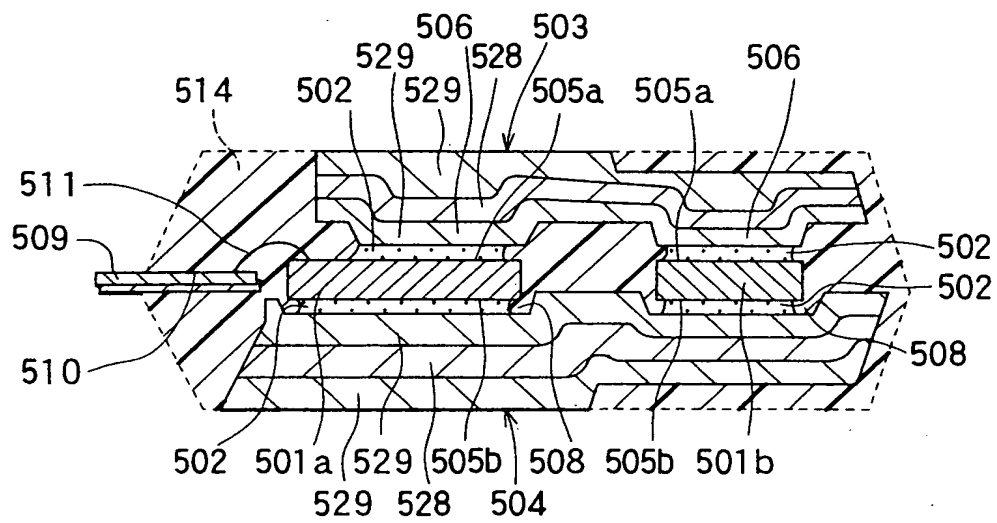


FIG. 35A

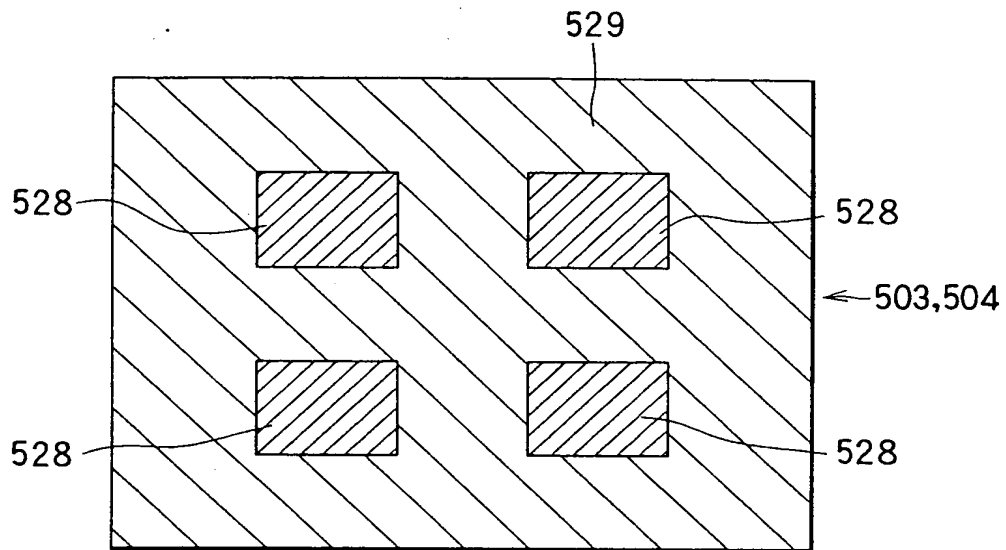


FIG. 35B

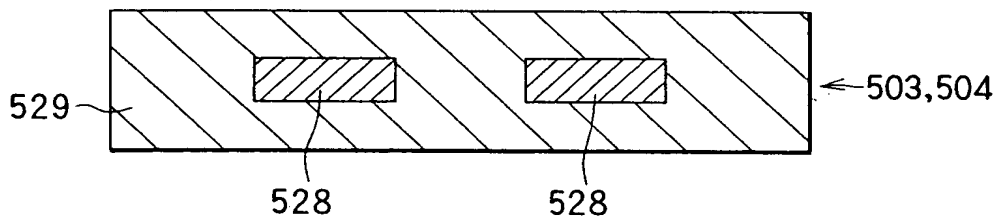


FIG. 36

